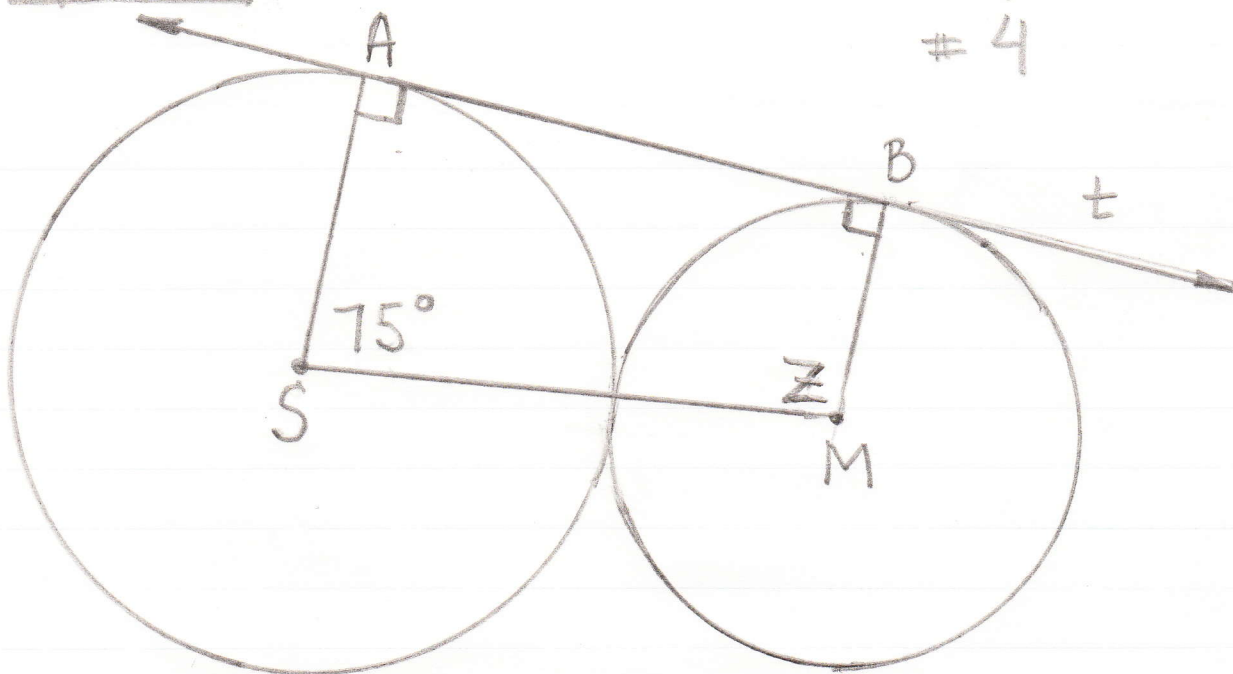


3 points

GEOM ch. 6.2 p. 315
#4



GIVEN: CIRCLE S; CIRCLE M
 $m\angle ASM = 75^\circ$; t - TANGENT TO
BOTH CIRCLES

FIND: $m\angle Z$

t IS TANGENT. ACCORDING TO C-59
 $\overline{AS} \perp t$; $\overline{BM} \perp t$

$$m\angle SAB = 90^\circ \quad m\angle ABM = 90^\circ$$

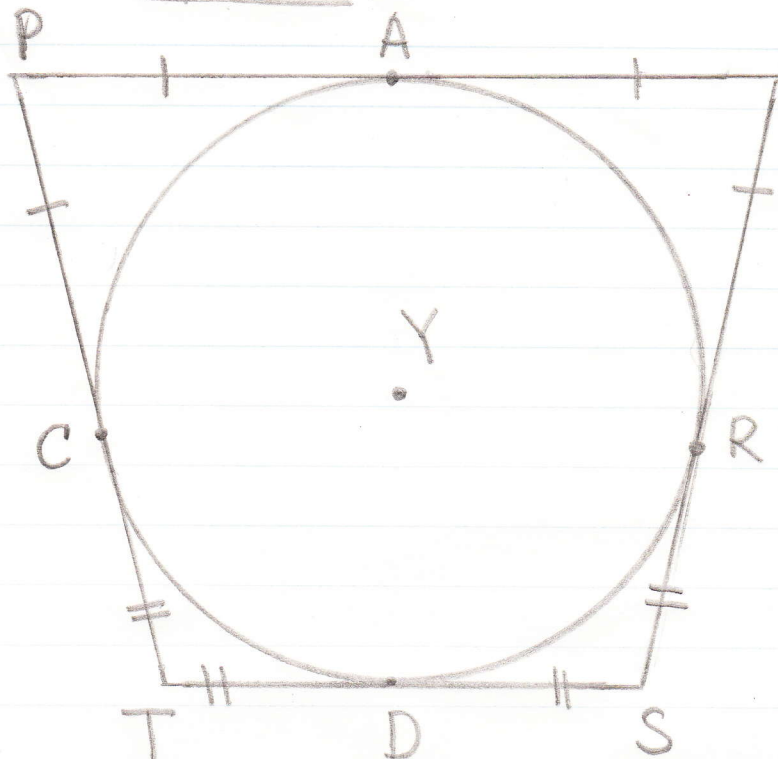
IN QUADRILATERAL ABMS SUM OF
INTERNAL ANGLES = 360°

$$m\angle Z = 360^\circ - (75^\circ + 90^\circ + 90^\circ) = 105^\circ$$

$$\underline{m\angle Z = 105^\circ}$$

5 points

GEOM CH. 6.2 p. 315
#5



GIVEN:
POST-QUADRILATERAL
CIRCLE Y
 $OR = 13$; $ST = 12$

FIND:
PERIMETER OF POST

\overline{PO} ; \overline{OS} ; \overline{ST} ; \overline{TP} - TANGENTS

ACCORDING TO C-60:

$$\overline{AO} \cong \overline{OR} \cong \overline{AP} \cong \overline{PC} = 13$$

↑ MARK ON THE DRAWING

$$\overline{CT} \cong \overline{TD} \cong \overline{DS} \cong \overline{SR} = 12$$

↑ MARK ON THE DRAWING

$$\begin{aligned} \text{PERIMETER OF POST: } 13 \cdot 4 + 12 \cdot 2 &= \\ &= 52 + 24 = \underline{\underline{76}} \end{aligned}$$